Please replace the paragraph beginning at page 75, line 4 with the following rewritten paragraph: The frequency of dosing will depend upon the pharmacokinetic parameters of the molecule in theformulation used. Typically, a clinician will administer the composition until a dosage is reached that achieves the desired effect. The composition may therefore be administered as a single dose, or as two or more doses (which may or may not contain the same amount of the desired molecule) over time, or as a continuous infusion via implantation device or catheter— Please replace the paragraph beginning at page 96, line 25 with the following rewritten paragraph: A BLAST search of the Celera Human Genome database was conducted using the huE3aI cDNA sequence (SEQ ID NO: i) as a probe. The sequences identified in the search were used to manually assemble a polynucleotide sequence (SEQ ID NO: 18) which was discovered to have a single nucleotide amismatch at nucleotide 4657, corresponding to nucleotide 5397 of the huE3aI eDNA sequence (SEQ ID NO: 1). The polynucleotide sequence of SEQ ID NO: 18 contains a huE3αl SNP with a change of a thymidine to a cytosine at position 4657, which Eczused a change in the amino sold sequence of SEQ ID NO: 19 at position 1573 to Schange from a Trp residue to an Arg residue (corresponding to the Trp residue at position 1563 in SEQ ID NO: 2) -Please replace the paragraph beginning at page 97, line 9 with the following rewritten paragraph: These experiments have confirmed the sequence of a huE3\alpha I SNP set out in SEQ ID NO: 18 wherein the nucleotide at position 4657 is a cytosine. Accordingly, the correct predicted amino acid sequence for this huE3aI SNP is set out as SEQ ID NO: 19, wherein the residue at position 1573 is Arg. F-IN THE CLAIMS Please amend claims 1-3 and 59-62 as follows.

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the nucleotide sequence as set forth in SEQ ID NO: 1;

nycleotide sequence selected from the group consisting of:

(Twice Amended) An isolated nucleic acid molecule comprising a

[and]

(a)

(d) a nucleotide sequence encoding a polypeptide set forth in SEQ ID NO: 2 which has a C- and/or N-terminal truncation, wherein the polypeptide has human E3α ligase activity of the polypeptide set forth in SEQ ID NO: 2;

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- (e) a nucleotide sequence encoding a polypeptide set forth in SEQ ID NO: 2 with at least one modification selected from the group consisting of amino acid substitutions, amino acid insertions, amino acid deletions, C-terminal truncation, and N-terminal truncation, wherein the polypeptide has human E3 α ligase activity of the polypeptide set forth in SEQ ID NO: 2;
 - (f) a nucleotide sequence complementary to any of (a)-(e).

59. (Twice Amended) A reagent comprising a detectably labeled perynucleotide encoding the amino acid sequence set out in SEQ ID NO: 2; or ailelic variants or spliced variants thereof with human E3α ligase activity.

14 50. (Amended) The reagent of claim 59, wherein said labeled polymacieotide is a first-strand cDNA.

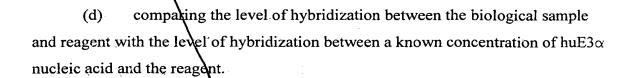
acids

- 61. (Amended) A method for determining the presence of huE3\alpha nucleic acids in a biological sample comprising the steps of:
- (a) providing a biological sample suspected of containing huE3\alpha nucleic acids;
- (b) contacting the biological sample with a reagent according to claim 59 under conditions wherein the reagent will hybridize with huE3\alpha nucleic acids contained in said biological sample;
- (c) detecting hybridization between huE3α nucleic acid in the biological sample and the reagent; and



- (b) a nucleotide sequence encoding the polypeptide set forth in SEQ ID NO: 2;
 - (c) a nucleof de sequence complementary to either of (a) or (b).
- Di Di
- 2. (Twice Amended) An isolated nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of:
- (a) a nucleotide sequence encoding a polypeptide that is at least 95 percent identical to the polypeptide set forth in SEQ ID NO: 2, wherein the encoded polypeptide has human E3α ligase activity of the polypeptide set forth in SEQ ID NO: 2;
- (b) an allelic variant of splice variant of the nucleotide sequence as set forth in SEQ ID NO: 1, encoding a polypeptide that has human E3c ligase activity of the polypeptide set forth in SEQ ID NO: 2;
 - (c) a nucleotide sequence domplementary to any of (a)-(b).
- 3. (Twice Amended) An isolated nucleic acid molecule comprising a nucleotide sequence selected from the group consisting of:
- (a) a nucleotide sequence encoding a polypeptide set forth in SEQ ID NO: 2 with at least one conservative amino acid substitution, wherein the polypeptide has human E3α ligase activity of the polypeptide set forth in SEQ ID NO: 2;
- (b) a nucleotide sequence encoding a polypeptide set forth in SEQ ID NO:
 2 with at least one amino acid insertion, wherein the polypeptide has human E3α
 ligase activity of the polypeptide set forth in SEQ ID NO: 2;
- (c) a nucleotide sequence encoding a polypeptide set forth in SEQ ID NO:
 2 with at least one amino acid deletion, wherein the polypeptide has human E3α
 ligase activity of the polypeptide set forth in SEQ ID NO: 2;

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62. (Amended) A method for detecting the presence of huE3α nucleic acids in a tissue or cellular sample comprising the steps of:

- (a) providing a vissue or cellular sample suspected of containing $huE3\alpha$ nucleic acids;
- (b) contacting the tissue or cellular sample with a reagent according to claim 59 under conditions wherein the reagent will hybridize with $huE3\alpha$ nucleic acids;
- (c) detecting hybridization between huE3α nucleic acid in the tissue or cellular sample and the reagent; and
- (d) comparing the level of hybridization between the tissue or cellular sample and reagent with the level of hybridization between a known concentration of buE3a nucleic acid and the reagent.